

## Product datasheet for **MC211443**

### Cybrd1 (NM\_028593) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Cybrd1 (NM\_028593) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Cybrd1  
**Synonyms:** 2210407P13Rik; Dcytb  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC211443 representing NM\_028593  
**Red**=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGCCATGGAGGGCTACCGGGGCTTCTGGGGCTGCTGGTGTCCGCGCTGCTCGTGGGCTTCTGTGCGG  
TGATCTTCGTGCTCATCTGGGTCTGCACTTCCGAGAGGGGCTTGGCTGGAACGGCAGCGGGCTCGAGTT  
TAACTGGCACCCGGTGTCTCGCGGTGACCGGCTTCTGCTTCCATCCAGGGCATCGCCATCATCGTGTACAGA  
CTGCCATGGACCTGGAAGTGCAGCAAGCTCTTGATGAAATCCATCCATGCCGGGTTAAACGCTGTGGCTG  
CCATCCTCGCCATCATCTCCGTGGTGGCTGTGTTTGTGAGTACCACAATGTCCAAAAAGTCCCCACATGTA  
CAGCCTGCACAGCTGGGTTGGACTGACAGCTCTCATACTACATCCAACAGCTTGTGTAGGCTTTTTC  
GTCTTTCTGCTTCCATGGGCTCCGCCCTCTCCGGGCAATCGTCATGCCATACACGTGTATTCTGGAC  
TCCTCCTCTTCGGAACAGTGATTGCGACGGTCTCATGGGAGTGACAGAAAAGCTGTTCTTTGTCTGAA  
ACACCCCTCGTACCATTCCACCAGAAGGTGTTTTTACAAATACGCTGGGCCTTCTGATTCTGGTG  
TTTGGAGCCCTCATCTTTTGGATTGTACCAGGCCCAATGGAACGCCCTAGAGAACCAGGCTCTGTCC  
CTCTCCAGCTAAATGGAGGCAATGCAGAATGCAGAATGGAAGGGCCATAGCAATAAGCTCCGCCACAG  
TATGGACGCAGCTGACCCAGCTGACGCAGAGTCAAGCAGTGAGGGAGCAGCCCGGAAGAGAACCCTCGGC  
CTTGCTGACTCTGGCCAGAGGTCCACCATG**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_028593  
**Insert Size:** 873 bp



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<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_028593.2</a> , <a href="#">NP_082869.2</a>
<b>RefSeq Size:</b>	5208 bp
<b>RefSeq ORF:</b>	873 bp
<b>Locus ID:</b>	73649
<b>UniProt ID:</b>	<a href="#">Q925G2</a>
<b>Cytogenetics:</b>	2 C2
<b>Gene Summary:</b>	Ferric-chelate reductase that reduces Fe(3+) to Fe(2+). Present at the brush border of duodenal enterocytes where it probably reduces dietary Fe(3+) thereby facilitating its transport into the mucosal cells. Uses ascorbate as electron donor. May be involved in extracellular ascorbate recycling in erythrocyte membranes. May also act as a ferrireductase in airway epithelial cells.[UniProtKB/Swiss-Prot Function]